Eight International Workshop on Semantic and Conceptual Issues in Geographic Information Systems (SeCoGIS 2014)

IN CONJUNCTION WITH THE
33ᴿᴰ INTERNATIONAL CONFERENCE ON CONCEPTUAL MODELING (ER 2014)
ATLANTA, GA, USA, OCTOBER 27-30, 2014

CALL FOR PAPERS

Recent advances in information technologies have increased the production, collection, and diffusion of geographical data, thus favoring the design and development of geographic information systems (GIS). Nowadays GISs are emerging as a common information infrastructure, which penetrate into more and more aspects of our society. This has given rise to new methodological and data engineering challenges in order to accommodate new users' requirements for new applications. Conceptual and semantic modelling are ideal candidates to contribute to the development of the next generation of GIS solutions. They allow to capture user requirements as well as the semantics of a wide domain of applications.

SeCoGIS is intended to bring together researchers, developers, users, and practitioners carrying out research and development in geographic information systems. The aim is to stimulate discussions on the integration of conceptual modeling and semantics into current geographic information systems, and how this will benefit the end users. The workshop will provide a forum for original research contributions and practical experiences of conceptual modeling and semantic web technologies for GIS, fostering interdisciplinary discussions in all aspects of these two fields, and will highlight future trends in this area. The workshop will be organized in a way to highly stimulate interaction amongst the participants.

TOPICS OF INTEREST

We invite submissions that address theoretical, technical, and practical topics of semantic and conceptual issues for GIS. Suggested topics include, but are not limited to the following:

- Spatio-temporal ontologies and spatio-temporal data modeling
- Multi-resolution and multi-representation in GIS
- Spatial services modeling
- Spatial query languages and interfaces
- Semantic GIS in environmental and urban contexts
- Geographical search engines
- Geographic information retrieval (GIR)
- Visualization and personalization of spatial information
- Spatial data infrastructures, interoperability and standards
- Spatial and spatio-temporal data warehouses
- Spatial data mining and spatial decision making
- Semi-structured geographic data modeling and reasoning
- Semantic web and GIS
- Semantic GIS and Big Data
- Semantic Sensor Web

PAPER SUBMISSION

Formatting Guidelines SeCoGIS 2014 proceedings will be published by Springer-Verlag in the LNCS series. Thus, authors must submit manuscripts using the Springer-Verlag LNCS style for Lecture Notes in Computer Science. See the page http://www.springer.de/comp/lncs/authors.html for style files and details. The page limit for workshop papers in LNCS format is 10 pages.

Submission Guidelines Submission to SeCoGIS 2014 will be electronically only. Authors are asked to submit an abstract first, and then to upload the full paper (in PDF format). The online submission system will be available from March 1st, 2014 at the address https://www.easychair.org/conferences/?conf=secogis2014.

IMPORTANT DATES

Abstract submission:	April 21, 2014
Full paper submission:	May 1st, 2014
Notification:	Jun 20, 2014
Camera-ready paper submission:	July 7, 2014
Author registration:	July 21, 2014
Workshop:	October 27-29, 2014

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